



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

Fuel Cycle Research and Development

Instructions for Break-out Sessions I & II

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**Presented at the USDOE Informational Meeting on
Nuclear Fuel Cycle Evaluation Metrics**

Argonne, IL

November 8-9, 2012



Recall Purpose of Meeting

- **Describe the purpose and objectives of the 2013 Evaluation and Screening effort**
- **Discuss the nuclear fuel cycle evaluation metrics and the methodologies for evaluating them that have been developed within the USDOE FCT program Office**
- **Obtain feedback on the metrics from the meeting participants**



Feedbacks Expected from Participants

■ Break-out Session I: Evaluation Metrics

- Discuss adequacy of the metrics for informing on each of the nine high-level evaluation criteria (any gaps?)

■ Break-out Session II: Application Methodology Issues

- Finalize discussion on adequacy of the metrics
- Discuss methodologies for evaluating the metrics/criteria and associated assumptions



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Break-out Session I



Structure and Schedule for Break-out Session I Groups

- **Three Groups** will deliberate during Break-out Session I, with each Group assigned the metrics for three Criteria
 - Each Break-out Session Group assigned two co-Chairs, one a member of the Evaluation and Screening Team (EST) and one from Industry
 - Discussions of Break-out Session I to be focused on the metrics only
 - *Input to Criteria is not requested during the meeting*
 - Co-Chairs will provide detailed instructions on the Break-out Session
- **Duration of Break-out Session I: Nov 8, 10:45 am – 3:00 pm**
 - **Lunch:** 11:45 am - 1:00 pm, but period at discretion of co-Chairs
- **Groups will reconvene in Plenary Room A-138 at 3:15 pm**
 - Co-Chairs will present feedbacks from Break-out Session I



Each Break-out Session Group Assigned Metrics for 3 Criteria

■ Criteria Set 1:

- Safety
- Proliferation Risk
- Nuclear Material Security Risk

■ Criteria Set 2:

- Nuclear Waste Management
- Environmental Impact
- Resource Utilization

■ Criteria Set 3:

- Financial Risk and Economics
- Development and Deployment Risk
- Institutional Issues



Room and Co-Chair Assignments for Break-out Session Groups

Break-out Session Group	Co-Chairs	Room*
Criteria Set 1 (<i>Safety; Proliferation Risk; Nuclear Material Security Risk</i>)	R. Jubin (ORNL) A. Sowder (EPRI)	Option 1
Criteria Set 2 (<i>Nuclear Waste Management; Environmental Impact; Resource Utilization</i>)	W. Halsey (LLNL) C. Phillips (ES)	Option 2
Criteria Set 3 (<i>Financial Risk & Economics; Development & Deployment Risk; Institutional Issues</i>)	J. Gehin (ORNL) P. Murray (Areva)	Option 3

****All in Building 208 (C-234, A-138, & L-110)***



Participants to Complete Sign-Up Sheets for Break-out Session Groups

Name and Affiliation	Name and Affiliation

**To be completed in
Break-out Session
Group Rooms**



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Break-out Session II



Structure and Schedule for Break-out Session II Groups

- **Same Three Groups** will deliberate during Break-out Session II
- **Duration of Break-out Session II: Nov 9, 8:00 am – 10:00 am**
 - Discussions of Break-out Session II to be focused on the adequacy of the metrics and the methodologies for evaluating the metrics/criteria and associated assumptions
 - Detailed structure and instructions for Break-out Session II will be presented by the Co-Chairs
- **Groups will reconvene in Plenary Room A-138 at 10:15 am**
 - Co-Chairs will present final feedbacks from the two Break-out Sessions